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## NEW AND RARE OHIO PLANTS.

WALTER FISCHER.

Since the last annual report on the State Herbarium was written, ten new plants have been added to the flora of the State. The following is a list of these plants with the names of their first collectors, date and locality of collection and a few remarks as to their occurrence and distribution:

50a. *Marsilea quadrifolia* L. Franklin County, W. Fischer, 1905. This plant was placed in the botanic garden at the University several years ago and is now spreading in a small stream on the University farm.

154a. *Panicum Gattingeri* Nash. Cuyahoga County, Otto Hacker, 1901; Washington County, W. A. Kellerman, 1902; Franklin and Warren Counties, W. Fischer, 1905. This *Panicum* is not so abundant as *P. capillare* but, is found side by side with the latter and, like it is common throughout the State.

154b. *Panicum cognatum* Schultes. Lake County, Otto Hacker, 1901.

553a. *Agave Virginica* L. Lawrence County, E. B. Willard, 1905. This is a southern plant and was found growing on a hillside near Ironton, probably one of the northernmost limits of its range.

626a. *Salix alba x lucida*. Ashtabula and Logan Counties, R. F. Griggs, 1905.

626b. *Salix alba x babylonica*? Ashtabula County, R. F. Griggs, 1905.

664a. *Quercus imbricaria x rubra*. Franklin County, W. Fischer, 1895. This interesting tree, now growing on a vacant lot in the city of Columbus, was discovered by the writer in September, 1895, and regarded at that time as a cross between *Q. rubra* and *Q. imbricaria*. Specimens in the herbarium, however, have always been labeled *Q. imbricaria x velutina*. If this oak is to be regarded as a hybrid of the shingle oak and some one of the red oak group, the evidence is certainly in favor of *Q. rubra* being one of its parents. A few small entire leaves, the pubescence on the under side of all the leaves, and the size of the fruit are probably characters inherited from *Q. imbricaria*; while the form of the majority of the leaves and of the acorn, especially the cup, also the habit and general aspect of the entire tree all point strongly to a *Q. rubra* ancestry.

1160a. *Croton monanthogynous* Michx. Franklin County, W. Fischer, 1905. Quite a patch of this western plant was found along a railroad track at North Columbus.

1593a. *Perilla frutescens* (L.). Warren County, W. Fischer, 1905. Around an old deserted dwelling and barn near Loveland, where it has been doing well and multiplying for the past fifteen years.

1960a. *Coreopsis lanceolata* L. Franklin County, W. Fischer, 1905. Escaped from gardens at Marble Cliff, where it has been spreading the last four or five years.

While botanizing during the past summer and fall a few other plants more or less rare were added by the writer. Some of these had not been in the herbarium before, although previously reported for the State.

Another hybrid oak, probably *Q. imbricaria x velutina*, was discovered in Warren County near Loveland. This tree is remarkable for having an aspect entirely that of *Q. imbricaria*. The leaves are medium in size and almost entire, the majority being wavy in outline, while lobed ones are very scarce. The fruit resembles that of *Q. velutina* more closely than that of any other of the red oak group.

*Aster sagittifolius urophyllus* (Lindl.) and *A. Lowrieanus* Porter, from the dry wooded hills of Fairfield County; and *A. puniceus lucidulus* A. Gray and *A. junceus* Ait. on Cranberry Island, Buckeye Lake, Licking County, the last named also in streams in Franklin County.

*Helianthus Maximiliani* Schrad. and *H. mollis* Lam., both western sunflowers, the former reported for Lake County in 1900 and the latter for Erie County in 1895, were found growing in considerable quantities near Marble Cliff in Franklin County.